# Elab Bright™ Violet 650 Anti-Human/Mouse CD44 Antibody[IM7]

**Catalog Number:** E-AB-F1100U

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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| **Reactivity** | Human;Mouse |
| **Host** | Rat |
| **Isotype** | Rat IgG2b, κ |
| **Clone No.** | IM7 |
| **Isotype Control** | Elab Bright™ Violet 650 Rat IgG2b, κ Isotype Control[R35-38] [Product AN00821U] |
| **Conjugation** | Elab Bright™Violet 650 |
| **Conjugation Information** | Elab Bright™ Violet 650 is designed to be excited by the violet laser (405 nm) and detected using an optical filter centered near 650 nm (e.g., a 660/20 nm bandpass filter). |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. |

## Applications — Recommended usage

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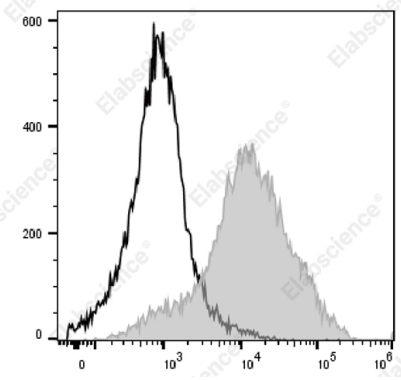
| **FCM** | Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. |

## Data




C57BL/6 murine splenocytes are stained with Elab Bright™ Violet 650 Anti-Human/Mouse CD44 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

## Preparation & Storage

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| **Storage** | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| **Shipping** | Ice bag |

## Antigen Information

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| **Alternate Names** | CD44 antigen;CD44;CDw44;Epican;Phagocytic glycoprotein 1;PGP-1;Phagocytic glycoprotein I;PGP-I;CD44;LHR; MDU2; MDU3; MIC4 |
| **Uniprot ID** | P15379;P16070 |
| **Gene ID** | 12505;960 |

**For Research Use Only**

**Background**

CD44 is a 80-95 kD glycoprotein also known as Hermes, Pgp1, H-CAM, or HUTCH. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As B and T cells become activated or progress to the memory stage, CD44 expression increases from low or mid levels to high levels. Thus, CD44 has been reported to be a valuable marker for memory cell subsets. High CD44 expression on Treg cells has been associated with potent suppressive function via high production of IL-10. CD44 is an adhesion molecule involved in leukocyte attachment to and rolling on endothelial cells, homing to peripheral lymphoid organs and to the sites of inflammation, and leukocyte aggregation.


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